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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/618,665	07/15/2003	Yasutakaq Ito	238761US-90CONT	5882
22850 7.	590 06/30/2004		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			PAIK, SANG YEOP	
1940 DUKE ST ALEXANDRIA			ART UNIT	PAPER NUMBER
1100111110101	·, · · · · · · · · · · · · · · · · · ·		3742	
			DATE MAILED: 06/30/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/618,665	ITO ET AL.	
Office Action Summary	Examiner	Art Unit	
	Sang Y Paik	3742	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a oly within the statutory minimum of thi will apply and will expire SIX (6) MOI e, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C.§ 133).	
Status			
1) Responsive to communication(s) filed on			
	— s action is non-final.		
3) Since this application is in condition for allowa	ance except for formal mat	ters, prosecution as to the merits is	
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D). 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 12-17 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 12-17 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	wn from consideration.		
Application Papers			
9)☐ The specification is objected to by the Examine	er.		
10)☐ The drawing(s) filed on is/are: a)☐ acc	· · · · · · · · · · · · · · · · · · ·		
Applicant may not request that any objection to the	• • • • • • • • • • • • • • • • • • • •	· ·	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	,	• • •	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in A crity documents have been u (PCT Rule 17.2(a)).	pplication No received in this National Stage	
Attachment(s)			
Notice of References Cited (PTO-892)		Summary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 		s)/Mail Date nformal Patent Application (PTO-152) 	

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 12 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Arena et al (US 5,635,093).

Arena et al also shows a ceramic heater including a ceramic substrate with a heating element embedded therein with a bottom hole formed relatively nearer to the heating surface than the heating element for providing a temperature sensor such as a thermocouple therein.

Arena et al further shows a control unit for supplying electric power to a plurality of plurality of heating circuits, a memory unit and operating/regulating unit for storing the measured temperature and for processing the power necessary to achieve the desired heating temperature.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 14-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Arena et al (US 5,635,093) in view of Ushikoshi et al (US 5,306,895) or Hecht et al (US 5,877,475).

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Arena et al shows the ceramic heater claimed except the temperature measuring element is a sheath type thermocouple that is also pressed or sealed in the bottom hole with an insulator.

Ushikoshi et al show a sheath thermocouple provided in the bottom hole of the bottom surface of a ceramic heater. Hecht et al also shows a sheath thermocouple that is pressed on the bottom surface of the ceramic heater with an elastic body such as a spring and also with an insulator.

In view of Ushikoshi or Hecht et al, it would have been obvious to one of ordinary skill in the art to adapt Arena et al with the sheath thermocouple along with the spring and an insulator to make a direct contact with the temperature measuring surface to more accurately measure the temperature and further apply the spring means to make a close contact with the surface and the insulator to insulate the temperature sensor from external heat.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sang Y Paik whose telephone number is 703-308-1147. The examiner can normally be reached on M-F (9:00-4:00) First Friday Off.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Sang Y Paik Primary Examiner Art Unit 3742